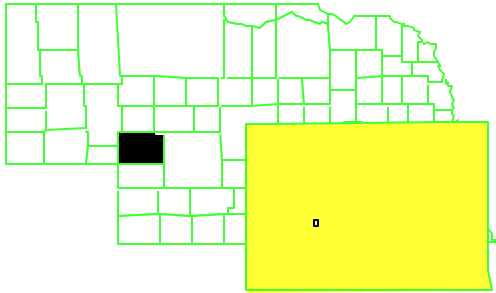


**OGALLALA  
GROUND WATER  
CONTAMINATION SITE  
NEBRASKA  
EPA ID# NED986369247**

**EPA Region 7  
City: Western part of Ogallala  
County: Keith  
Other Names: American Shizuki/Ogallala  
Electronic Co.**

**05/20/2003**



## **SITE DESCRIPTION**

The Ogallala Ground Water Contamination Site consists of two distinct areas or operable units (OU) located in the western part of Ogallala along the South Platte River. This area of the community is primarily industrial, commercial, and residential. One OU (OU1) includes a company that formerly manufactured electrical components since the early 1960s. The facility on this property was owned and operated by TRW, Inc., until 1986. American Shizuki Corp. took over the operations in 1987. Ogallala Electronics, which occupies a second area within OU1, also manufactures electronics components and is considered a potentially responsible party at the site. The Nebraska Department of Health first detected volatile organic compounds (VOCs) in five of the nine municipal wells serving Ogallala in 1987. The two locations used by the companies were identified as the source of contamination during subsequent investigations. Public and private wells located within 4 miles of the site supply drinking water to an estimated 5,100 people; the water from these wells is also used for irrigation. A second OU (OU2) is contaminated with solvents from Tip-Top Cleaners, a dry cleaner/operation.

### **Site Responsibility:**

The site is being addressed through private party, Federal and State actions.

### **NPL LISTING HISTORY**

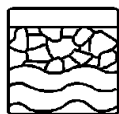
**Proposed Date:** 10/14/1992

**Final Date:** 12/16/1994

**Deleted Date:**

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## THREATS AND CONTAMINANTS



Various VOCs, including trichloroethane (TCA), cis 1,2-dichloroethylene, 1,1-dichloroethane, tetrachloroethylene (PCE), trichloroethylene (TCE) and gasoline products (benzene, toluene, ethylbenzene and xylene) were detected during a soil-gas survey conducted by the Nebraska Department of Environmental Control in mid-1990. TCE, PCE and TCA are related to both OU1 facilities. Similar contaminants have been detected in monitoring wells in and around both properties and in numerous municipal wells. Tetrachloroethylene (PCE) and carbon tetrachloride (CT) are also contaminants of concern. OU1 is contaminated with PCE, TCE, and CT. The EPA believes that the CT contamination source is from the grain storage operation in OU1. Tip-Top Cleaners used and continues to use PCE in their operation. PCE is the only chemical of concern at OU2.

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## CLEANUP APPROACH

### Response Action Status

This site is being addressed in a long-term remedial phase focusing on cleanup of both OUs. For OU1, the EPA released its ROD in April, 1999, and selected the continuation of the extraction and treatment system at American Shizuki Corp. until MCLs were attained and verified; institutional controls; and ground water monitoring for eight quarters to determine if natural attenuation would address the residual contamination. For OU2, the EPA released its Action Memorandum on September, 2001, which selected soil vapor extraction (SVE) to remove the source of the PCE at Tip-Top Cleaners. Installation of the vadose zone extraction wells was completed in December, 2001. Installation of the SVE system was completed in February, 2002. The EPA monitors the progress of the SVE on a monthly basis. The EPA selected 0.300 ppmv as the removal action goal for this operable unit and EPA believes that this level will be attained within a year. As of June, 2002, a total of 114 pounds of PCE have been removed. To address the contamination in the ground water at OU2, the EPA conducted two treatability studies. The first study used reductive dechlorination and was completed in December, 2000 and the second study used chemical oxidation technologies and it was initiated in December, 2001 and completed in April, 2002. The EPA completed a soil-gas investigation in June, 2002, and installed 5 monitoring wells downgradient of the Tip-Top Cleaners. Ground water samples were collected from these newly installed wells to aid EPA in determining which actions to implement. The EPA anticipates releasing its decision document to address the ground water contamination during 2002.

**Site Facts:**

For OU1, EPA's remedy is the continuation of the ground water extraction and treatment system, the implementation of institutional controls and the use of monitored natural attenuation. For OU2, the EPA selected SVE to address the contamination in the soils at the source area. The EPA anticipates implementing additional actions to address the PCE ground water plume. The EPA will release its decision document within 2002 calendar year.

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## ENVIRONMENTAL PROGRESS



The City of Ogallala developed a new public water supply well field upgradient from the contaminated area. As a result, the Ogallala Groundwater Contamination site poses no immediate threats to the health of the nearby population using water from the city. For OU2, the EPA initiated its soil vapor extraction removal action in February, 2002. The EPA will release its decision document for ground water PCE plume migrating from the Tip-Top Cleaner source area.

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## SITE REPOSITORY



Ogallala Public Library,  
Ogallala, NE

Superfund Records Center  
901 N. 5th St.  
Kansas City, KS 66101  
Mail Stop SUPR  
(913)551-4038

## REGIONAL CONTACTS

**SITE MANAGER:** Diane Easley  
**E-MAIL ADDRESS:** easley.diane@epa.gov.  
**PHONE NUMBER:** (913) 551-7797

**COMMUNITY INVOLVEMENT COORDINATOR:** Beckie Himes  
**PHONE NUMBER:** (913) 551-7003  
**E-MAIL ADDRESS:** himes.beckie@epa.gov

**STATE CONTACT:** John Flint  
**PHONE NUMBER:** 308-632-0544

## MISCELLANEOUS INFORMATION

**STATE:** NE  
07HW  
**CONGRESSIONAL DISTRICT:** 03  
**EPA ORGANIZATION:** SFD-SUPR/FFSE

## MODIFICATIONS

**Created by:** Karla  
Asberry/SUPRFUND/R7/US  
EPA/US

**Created Date:** 10/17/1997 02:42 PM

**Last Modified by:** Jude

Roach/SUPR/R7/USEPA/US

**Last Modified Date:**

05/20/2003 03:04 PM

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